

CLAIMS

1. A process for creating on a graphic computer interface (1) three-dimensional animated graphical images representing scenes with objects (8,9) and/or characters; the graphical images having been designed by a designer-operator
5 to be animated interactively, in real time, by the users for whom they are intended,

the process comprising the following steps:

- The step of selecting (2, 3, 4) from libraries of objects (1b, 7) and/or of characters, at least one object (8, 9)
10 and/or one character.

- The step of displaying the object and/or character on the graphic interface (1, 1a),

~~-----The step of selecting (2, 3, 4) the behaviour of an~~
object (8) and/or a character from behaviour libraries (1b,
15 12, 1c 13); the behaviours reacting in whole or in part interactively, in real time, to efforts on the part of the users intervening by means of an operating control, notably a keyboard,

for example, the explosive behaviour (1c, 13) of a first
20 object can be linked to the movement of a second object, passing close by the first object, activated by the user by means of the operating control,

- The step of assigning the selected behaviour to an object (8) or a character appearing on the graphic interface (1, 1a),

5 - The step of assembling (17a, 17b, 23a, 23b) on a graphic interface (1, 1d), according to the sequences and the tree structures of an interactive animated script in the course of being designed, visual elements (15, 16) symbolizing the relevant objects and/or characters involved with the animated scene as well as the behaviours (14, 23) that are attributed to
10 them,

in such a manner that it is possible to display the various sequences and the tree structures of the interactive animated script as it is in the process of being designed.

2. A process as mentioned in Claim 1, comprising, in
15 addition, the following steps:

- The step of creating series of behaviours, notably the explosion (13) of one object (8) may be linked in a series to the movement of another object (9) passing close by (22) in the scene represented on the graphic interface (1, 1a),

20 in such a manner that is possible to generate sequential modules of sequenced object and/or character compartments, which can in turn be reassembled into other modules and then into more complex interactive animated scripts.

3. A process, as mentioned in either of Claims 1 or 2,
25 comprising, in addition, the following step:

- The step of selecting (2, 3, 4), in the library of camera perspectives (10), the perspective of the camera projecting the three-dimensional scene,

4. A system for creating (1) three-dimensional
30 graphical images representing scenes (1a) with objects (8, 9) and/or characters on a graphic interface; the graphical images being designed by a designer-operator in order to be animated interactively, in real time, by the users for which they were intended; the graphic interface (1) being associated with a
35 calculating device (2) and a command unit (3, 4);

the calculating devices (2) and command units (3, 4) comprising a first means of calculation and a first means of command

5 - For selecting at least one object (8, 9) and/or character from the object libraries (7), and

 - For displaying (1a) the object (8, 9) and/or character on the graphic interface (1),

10 the calculating devices (2) and command units (3, 4) comprising, in addition, a second calculating device and a second command device

 - For selecting from the behaviour libraries (12) the behaviour of an object (8, 9) and/or character, for example, an explosive behaviour (13) or a movement (21, 22), and

15 - For assigning (15, 14, 18) (16, 23, 24) to an object (8, 9) or character appearing on the graphic interface (1, 1a) the selected behaviour (13, 22);

 the behaviours reacting in whole or part interactively, in real time, to efforts on the part of the users intervening by means of an operating control, notably a keyboard;

20 for example, the explosive behaviour (1c, 13) of a first object may be linked to the movement of a second object, passing close by the first object, activated by the user by means of the operating control;

25 the calculating devices (2) and command units (3, 4) comprising, in addition, activation devices for activating on the graphic interface (1) one or more areas (1d) on which the designer-operator assembles visual elements symbolising the objects (15, 16) and/or characters involved with the animated scene as well as the behaviours (14, 19) (23, 24) that are
30 assigned to them, according to the sequences and the tree structures of an interactive animated script in the process of being designed,

 such that it is possible to display the various sequences and tree structures of the script as it is in the process of being
35 designed.

5. A system as mentioned in Claim 4, such that the calculating devices (2) and command units (3,4) comprise, in addition:

- 5 - a third calculating device and a third command device for selecting, in the libraries of camera perspectives (10), the camera perspective projecting the three-dimensional scene.

6. A system as mentioned in either of Claims 4 or 5, such that the calculating devices (2) and command unit (3, 4) comprise, in addition:

- 10 - a fourth calculating device and a fourth command device for creating series of behaviours, notably, the explosion (13) of one object (8) while another object (9) is passing close by (22) in the scene represented (1a) on the graphic interface (1a)

- 15 in such a manner that the system allows modules of sequenced object and/or character behaviours to be generated, which can be reassembled into other modules, and then into more complex animated scripts.